RESULT LIST
7 results found in the Worldwide database for:
topography in the title AND **database** in the title or abstract
(Results are sorted by date of upload in database)

1 **Method and apparatus for automated selection, organization, and recommendation of items based on user preference topography**
Inventor: KOLAWA ADAM K (US); HICKEN WENDELL (US); (+1)   Applicant:
EC: IPC: *G06F7/00*; G06F7/00
Publication info: **US2006020614** - 2006-01-26

2 **Ethernet OAM network topography discovery**
Inventor: MOHAN DINESH (CA); MANCOUR TIMOTHY (US); (+1)   Applicant: NORTEL NETWORKS LTD (CA)
EC: IPC: *H04L12/28*; H04L12/28; (IPC1-7): H04L12/28
Publication info: **US2005099954** - 2005-05-12

3 **PUPILLOMETER WITH PUPIL IRREGULARITY DETECTION, PUPIL TRACKING, AND PUPIL RESPONSE DETECTION CAPABILITY, GLAUCOMA SCREENING CAPABILITY, CORNEAL TOPOGRAPHY MEASUREMENT CAPABILITY, INTRACRANIAL PRESSURE DETECTION CAPABILITY, AND OCULAR ABERRATION MEASU...**
Inventor: STARK LAWRENCE W; PRIVITERA CLAUDIO M; (+2)   Applicant: NEUROPTICS INC
EC: A61B3/11D   IPC: *A61B3/11*; A61B3/11; (IPC1-7): A61B3/11 (+1)
Publication info: **JP2004283609** - 2004-10-14

4 **TOPOGRAPHY OBSERVATION SYSTEM AND ITS METHOD**
Inventor: SUZUKI MASARU   Applicant: HICOM KK
EC: IPC: *G06T1/00; G06T17/50; G09B29/10* (+9)
Publication info: **JP2004070475** - 2004-03-04

5 **METHOD AND SYSTEM OF AN INTEGRATED BUSINESS TOPOGRAPHY AND VIRTUAL 3D NETWORK PORTAL**
Inventor: SANDUS JAMES A (US); NICHOLAS FRANK C (US)   Applicant: OUTLET GROUP LLC (US); SANDUS JAMES A (US); (+1)
EC: IPC: **G06F**; (IPC1-7): G06F
Publication info: **WO0239216** - 2002-05-16

6 **Method and system of an integrated business topography and virtual 3D network portal**
Inventor: SANDUS JAMES A (US); NICHOLAS FRANK C (US)   Applicant:
EC: IPC: (IPC1-7): G06F17/60
Publication info: **US2002072993** - 2002-06-13

7 **Interactively tailoring topography of integrated circuit layout in accordance with electromigration model-based minimum width metal and contact/via rules**
Inventor: WANDS CHARLES E   Applicant: HARRIS CORP (US)
EC: G06F17/50L3   IPC: *G06F17/50*; G06F17/50; (IPC1-7): G06F17/50
Publication info: **GB2283117** - 1995-04-26

Data supplied from the *esp@cenet* database - Worldwide

RESULT LIST
5 results found in the Worldwide database for:
topography in the title AND **knowledge** in the title or abstract
(Results are sorted by date of upload in database)

1 **INTEGRITY MONITORING IN A POSITION LOCATION SYSTEM UTILIZING KNOWLEDGE OF LOCAL TOPOGRAPHY**

Inventor: GAAL PETER

Applicant: QUALCOMM INC (US)

EC: G01S1/00S1A3; G01S5/02; (+3)

IPC: *G01S1/00; G01S5/02; G01S5/14* (+9)

Publication info: **WO03089954** - 2003-10-30

2 **3-DIMENSIONAL BOX MODEL ATMOSPHERE SIMULATOR IN WHICH INFLUENCE OF TOPOGRAPHY IS TAKEN INTO CONSIDERATION**

Inventor: KITAYAMA MASABUMI

Applicant: KITAYAMA MASÁBUMI

EC:

IPC: *G01W1/00; G01W1/10; G06F19/00* (+9)

Publication info: **JP2004070895** - 2004-03-04

3 **Measurement of topography using polarimetric synthetic aperture radar (SAR)**

Inventor: SCHULER DALE L (US); LEE JONG-SEN (US)

Applicant: US ARMY (US)

EC: G01S7/02P; G01S13/90

IPC: *G01S7/02; G01S13/90*; G01S13/88 (+3)

Publication info: **US5552787** - 1996-09-03

4 **DEVICE FOR DETERMINATION OF THE TOPOGRAPHY OF A SURFACE**

Inventor: LINDQVIST DAVID (SE); PETTERSEN ALF (NO); (+1)

Applicant: METRONOR AS (NO); LINDQVIST DAVID (SE); (+2)

EC: G01B11/24

IPC: *G01B11/24*; G01B11/24; (IPC1-7): G01B11/00

Publication info: **WO9116598** - 1991-10-31

5 **Topography-aided guidance system and process**

Inventor: HUSS RONALD E (US); VITALI ROBERT E (US)

Applicant: RAYTHEON CO (US)

EC: F41G7/22

IPC: *F41G7/22; F41G7/20*; (IPC1-7): F42B15/01

Publication info: **US6279851** - 2001-08-28

Data supplied from the *esp@cenet* database - Worldwide

RESULT LIST
2 results found in the Worldwide database for:
topography in the title AND **management** in the title or abstract
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1   **Method of topography management in semiconductor formation**
    Inventor: HAUSE FRED N (US); ALLEN MICHAEL B (US)   Applicant: ADVANCED MICRO DEVICES INC (US)

    EC: H01L21/762C   IPC: *H01L21/762*; **H01L21/70**; (IPC1-7):
                                             H01L21/76
    Publication info: **US6559028** - 2003-05-06

2   **System and method for developing topography based management
    systems**
    Inventor: SWEITZER JOHN WILLIAM (US); WOOD   Applicant: IBM (US)
    DOUGLAS ANDREW (US)
    EC: IPC: *G06F15/173; G06F15/177*; **G06F15/16** (+2)

    Publication info: **US2003101250** - 2003-05-29

_____

Data supplied from the *esp@cenet* database - Worldwide

RESULT LIST
1 result found in the Worldwide database for:
topography in the title AND **hybrid** in the title or abstract
(Results are sorted by date of upload in database)

1 **SYSTEM AND METHOD FOR SPECTRAL TOPOGRAPHY OF MAMMALIAN MATTER USING WHITE LIGHT ILLUMINATION**

Inventor: LERNER JEREMY M; VARI SANDOR G   Applicant: CEDARS SINAI MEDICAL CENTER (US)

EC: A61B5/00P   IPC: *A61B5/00*; *A61B5/00*; (IPC1-7): A61B5/00

Publication Info: **WO0010451** - 2000-03-02

Data supplied from the *esp@cenet* database - Worldwide

RESULT LIST
9 results found in the Worldwide database for:
topography in the title AND **calibration** in the title or abstract
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1 **PUPILLOMETER WITH PUPIL IRREGULARITY DETECTION, PUPIL
    TRACKING, AND PUPIL RESPONSE DETECTION CAPABILITY,
    GLAUCOMA SCREENING CAPABILITY, CORNEAL TOPOGRAPHY
    MEASUREMENT CAPABILITY, INTRACRANIAL PRESSURE
    DETECTION CAPABILITY, AND OCULAR ABERRATION MEASU...**
    Inventor: STARK LAWRENCE W; PRIVITERA CLAUDIO   Applicant: NEUROPTICS INC
    M; (+2)
    EC: A61B3/11D   IPC: *A61B3/11*; A61B3/11; (IPC1-7): A61B3/11
                                                    (+1)
    Publication info: JP2004283609 - 2004-10-14

2 **Disentangling sample topography and physical properties in scanning
    near-field microwave microscopy**
    Inventor: ANLAGE STEVEN MARK (US); FEENSTRA   Applicant: UNIV MARYLAND (US)
    BOKKE JOHANNES (NL); (+1)
    EC: G01N22/00   IPC: *G01N22/00*; G01N22/00; (IPC1-7): H01J3/14
    Publication info: US6376836 - 2002-04-23

3 **Scattered incident X-ray photons for measuring surface roughness of a
    semiconductor topography**
    Inventor: NOACK BROOKE M (US); HOSSAIN TIM Z   Applicant: ADVANCED MICRO DEVICES INC (US)
    (US)
    EC: G01N23/223;Y01N8/00   IPC: *G01N23/223*; G01N23/22; (IPC1-7):
                                                    H01L21/66
    Publication info: US6376267 - 2002-04-23

4 **IMPROVED PHASE SHIFTING INTERFEROMETER AND METHOD FOR
    SURFACE TOPOGRAPHY MEASUREMENT**
    Inventor: DEGROOT PETER   Applicant: ZYGO CORP (US)
    EC: G01B9/02   IPC: *G01B9/02*; G01B9/02; (IPC1-7): G01B9/02
    Publication info: WO9531694 - 1995-11-23

5 **CALIBRATION STRUCTURE FOR IC REGISTRATION MEASUREMENT
    SYSTEM**
    Inventor: CORLISS DANIEL A   Applicant: DIGITAL EQUIPMENT CORP (US)
    EC: H01L21/66M2   IPC: *H01L21/66*; H01L21/66; (IPC1-7): G03B41/00
                                                    (+2)
    Publication info: GB2257514 - 1993-01-13

6 **Measuring object topography using projected strip patterns -
    evaluating phase measurements with periodicities with two or more
    different contour surface distances**
    Inventor: HANSEN ADALBERT (DE); HOF ALBRECHT DR Applicant: ZEISS CARL FA (DE)
    (DE)
    EC: G01B11/25G; G01C11/02   IPC: *G01B11/25; G01C11/02*; G01B11/24 (+5)
    Publication info: DE4217768 - 1993-12-02

7 **Phase-stepping fiber-optic projected fringe system for surface
    topography measurements**
    Inventor: MERCER CAROLYN R (US); BEHEIM GLENN   Applicant: NASA (US)
    (US)
    EC: G01B11/24H   IPC: *G01B11/24*; G01B11/24; (IPC1-7): G01B11/02
    Publication info: US5146293 - 1992-09-08

8 **Topography measuring apparatus**
    Inventor: YODER JR PAUL R (US)   Applicant: TAUNTON TECH INC (US)
    EC: A61B3/107; A61B3/15B; (+1)   IPC: *A61B3/107; A61B3/15; G01B11/255* (+5)

Publication Info: US5106183 - 1992-04-21

9   TOPOGRAPHY MEASURING APPARATUS

Inventor: YODER PAUL R JR (US)

Applicant: TAUNTON TECH INC (US)

EC: A61B3/107; A61B3/15B; (+1)

IPC: *A61B3/107; A61B3/15; G01B11/255* (+5)

Publication Info: CA1308948 - 1992-10-20

Data supplied from the *esp@cenet* database - Worldwide

RESULT LIST
2 results found in the Worldwide database for:
topography in the title AND **factors** in the title or abstract
(Results are sorted by date of upload in database)

1   **Topography monitor**
Inventor: EDELSTEIN DANIEL C (US); BIERY GLENN A   Applicant: IBM (US)
(US)
EC: H01L23/544T   IPC: *H01L23/544*; *G01R31/316*; **H01L23/544** (+3)

Publication Info: **US5952674** - 1999-09-14

2   **Apparatus and method of concomitant scenario topography with the
aid of a digital computer**
Inventor: FLEISCHER PETER (US)   Applicant: US NAVY (US)

EC: G06Q10/00F   IPC: *G06Q10/00*; **G06Q10/00**; (IPC1-7): G01V3/38
(+1)

Publication info: **USH1997H** - 2001-10-02

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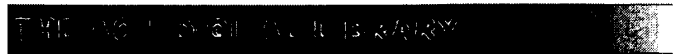
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1 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(5.28 MB)   Additional Information: full citation

2 Special issue: AI in engineering
D. Sriram, R. Joobbani
April 1985   **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: 📄 pdf(8.79 MB)   Additional Information: full citation, abstract

  The papers in this special issue were compiled from responses to the announcement in the July
  SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area
  sixty papers received from over six countries. About half the papers were received over the con

3 The impact of information systems on organizations and markets
Vijay Gurbaxani, Seungjin Whang
January 1991 **Communications of the ACM**, Volume 34 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(3.70 MB)   Additional Information: full citation, abstract, references, citings, inde:

  The adoption of information technology (IT) in organizations has been growing at a rapid pace.
  technology has evolved from the automation of structured processes to systems that are truly r
  they introduce change into fundamental business procedures. Indeed, it is believed that "More t
  computers, companies will live by them, shaping strategy and structure to fit new information t·
  While the importance of the rel ...

4 Prototyping: An approach to information and communication system design
Mitchell G. Spiegel
January 1981 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1981
         workshop/symposium on Measurement and evaluation of software quality**, \
Publisher: ACM Press
Full text available: 📄 pdf(1.40 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes prototyping, a state-of-the-art methodology to assist a design team in mal definition and analysis of new requirements, feasibility, alternative selections, workload impact, application specification, implementation, and testing. Suggested prototype tools and technique guidance is included to aid a design team in obtaining accurate and timely results. This paper is complete text on design. It should be ...

5 Projectors: advanced graphics and vision techniques

Ramesh Raskar

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(6.53 MB)   Additional Information: full citation

6 Adoption, diffusion, and infusion of IT: Organizational adoption and assimilation of complex innovations: development and application of a new framework

Michael J. Gallivan

July 2001   **ACM SIGMIS Database**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(3.37 MB)   Additional Information: full citation, abstract, references, citings, inde:

This paper explores the applicability of traditional innovation adoption and diffusion models to c innovation processes occurring within an organizational context (Zaltman, Duncan & Holbeck, 1 employees in organizations adopt an innovation that has been chosen by an authority figure. Th existing gaps in traditional innovation adoption models and concludes that a new framework is i incorporates the unique processes and ...

Keywords: technology adoption, technology diffusion

7 Managing emerging software technologies: a technology transfer framework

Timothy D. Korson, Vijay K. Vaishnavi

September 1992 **Communications of the ACM**, Volume 35 Issue 9

Publisher: ACM Press

Full text available: pdf(2.32 MB)   Additional Information: full citation, references, index terms, review

Keywords: analysis, modeling

8 Building knowledge base management systems

John Mylopoulos, Vinay Chaudhri, Dimitris Plexousakis, Adel Shrufi, Thodoros Topologlou

December 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, v

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(403.22 KB)   Additional Information: full citation, abstract, citings, index terms

Advanced applications in fields such as CAD, software engineering, real-time process control, cc and digital libraries require the construction, efficient access and management of large, shared Such knowledge bases cannot be built using existing tools such as expert system shells, becaus up, nor can they be built in terms of existing database technology, because such technology do rich representational structure and infer ...

Keywords: Concurrency control, Constraint enforcement, Knowledge base management syster management, Storage management

9 **Design and evaluation of a wide-area event notification service**

August 2001   **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, inde:

The components of a loosely coupled system are typically designed to operate by generating an asynchronous events. An event notification service is an application-independent infrastructure construction of event-based systems, whereby generators of events publish event notifications and consumers of events subscribe with the infrastructure to receive relevant notifications. The that should be provid ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

10 **Software engineering and middleware: a roadmap**

Wolfgang Emmerich
May 2000 **Proceedings of the Conference on The Future of Software Engineering**
Publisher: ACM Press
Full text available: pdf(1.34 MB)   Additional Information: full citation, references, citings, index terms

11 **KM-4 (knowledge management): distributed knowledge management: Towards smarter dc**

Vikas Krishna, Prasad M. Deshpande, Savitha Srinivasan
November 2004 **Proceedings of the thirteenth ACM international conference on Information management CIKM '04**
Publisher: ACM Press
Full text available: pdf(224.70 KB)   Additional Information: full citation, abstract, references, index terms

Document analysis research typically focuses on document image understanding or classic prob classification, clustering, summarization and discovery. While that is an important aspect of doc in practice, documents lifecycles are often determined by the context of the business process th to. It therefore becomes necessary for the document analysis techniques to recognize and lever information provided by a supporting schema and ...

Keywords: classification, content, processes, workflow

12 **Data base directions: the next steps**

John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2
Publisher: ACM Press
Full text available: pdf(9.95 MB)   Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions technology? To provide this information the National Bureau of Standards and the Association fc Machinery established a workshop of approximately 80 experts in five major subject areas. The were auditing, evolving technology, government regulations, standards, and user experience. E report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, governrr management objectives, privacy, security, standards, technology assessment, user experience

13 **Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on research**
Publisher: IBM Press
Full text available: pdf(4.21 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Understanding distributed applications is a tedious and difficult task. Visualizations based on pr
> are often used to obtain a better understanding of the execution of the application. The visualiz
> Poet, an event tracer developed at the University of Waterloo. However, these diagrams are oft
> do not provide the user with the desired overview of the application. In our experience, such to
> occurrences of non-trivial commun ...

14 Reviewed articles: A clean slate 4D approach to network control and management

Albert Greenberg, Gisli Hjalmtysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, H
Hui Zhang
October 2005 **ACM SIGCOMM Computer Comm unication Review**, Volume 35 Issue 5
Publisher: ACM Press
Full text available: pdf(313.74 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

> Today's data networks are surprisingly fragile and difficult to manage. We argue that the root o
> in the complexity of the control and management planes--the software and protocols coordinati
> elements--and particularly the way the decision logic and the distributed-systems issues are ine
> We advocate a complete refactoring of the functionality and propose three key principles--netw
> network-wide views, and direct control--that ...

> **Keywords**: control, network management, robustness

15 Draft report of the Federal Internetworking Requirements Panel, and selected responses

Diane Fountaine
April 1994 **ACM SIGCOMM Computer Comm unication Review**, Volume 24 Issue 2
Publisher: ACM Press
Full text available: pdf(4.15 MB)   Additional Information: <u>full citation</u>, <u>index terms</u>

16 Special section: Special issue on AI and Database research

Jonathan J. King
October 1983 **ACM SIGART Bulletin**, Issue 86
Publisher: ACM Press
Full text available: pdf(3.84 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

> This collection of research summaries spans a very wide range of interests under the general he
> Database research. In this introduction, I briefly describe the leading areas of interest that eme
> submitted for this issue.

17 The Integrated Dictionary/Directory System

Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino
June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2
Publisher: ACM Press
Full text available: pdf(2.71 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

18 Cellular disco: resource management using virtual clusters on shared-memory multiproces
Kinshuk Govil, Dan Teodosiu, Yongqiang Huang, Mendel Rosenblum

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3
Publisher: ACM Press
Full text available: pdf(287.05 KB)   Additional Information: full citation, abstract, references, citings, inde:

Despite the fact that large-scale shared-memory multiprocessors have been commercially avail;
years, system software that fully utilizes all their features is still not available, mostly due to th
of making the required changes to the operating system. A recently proposed approach, called I
reduces this development cost by using a virtual machine monitor that laverages the existing o
technology. In this paper we present a ...

Keywords: fault containment, resource managment, scalable multiprocessors, virtual machine:

19   A survey of current object-oriented databases

Mansour Zand, Val Collins, Dale Caviness
February 1995 **ACM SIGMIS Database**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(1.44 MB)   Additional Information: full citation, abstract, citings, index terms

Object-oriented concepts form a good basis for the data models required for next-generation d;
such as CAD/CAE/CASE/CAM systems, knowledge-based systems, multimedia, etc. Many object
are available commercially or are being developed by industry or academic research facilities. T
compare some of these products using fourteen criteria. The selected criteria are major factors
successful design of an object-oriented database ...

Keywords: OOD-BMS survey, object-oriented database, object-oriented terminology

20   Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid
June 1995   **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2
Publisher: ACM Press
Full text available: pdf(4.85 MB)   Additional Information: full citation, abstract, references, citings, inde:

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, a
database systems. There has been a recent proliferation of research suggesting the application
techniques to facilitate the complex task of designing and implementing MDBSs. Although this a
promising, the lack of a general framework impedes any further development. The goal of this |
concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

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1 Comparison of models of individual choice in a complex setting   ■
Alan Goldberg, Eugene E. Kaczka
December 1979 **Proceedings of the 11th conference on Winter simulation - Volume 1**
Publisher: IEEE Press
Full text available: 📄 pdf(359.26 KB)   Additional Information: full citation, abstract, index terms

In response to gasoline shortages, pollution problems and the rise in oil prices, it is clear that individual commuting habits may be modified. To assist planners in evaluating the impact of alternative policies, models of individual behavior in complex mode choice environments are necessary. This paper examines the use of simulation in association with statistical methodologies to verify models of traveler behavior. The data employed in the calibration and evaluation of the models was deri ...

2 Hands-On Interfaces: Illuminating clay: a 3-D tangible interface for landscape   ■
◆ analysis
Ben Piper, Carlo Ratti, Hiroshi Ishii
April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**
Publisher: ACM Press
Full text available: 📄 pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a novel system for the real-time computational analysis of landscape models. Users of the system - called Illuminating Clay - alter the topography of a clay landscape model while the changing geometry is captured in real-time by a ceiling-mounted laser scanner. A depth image of the model serves as an input to a library of landscape analysis functions. The results of this analysis are projected back into the workspace and registered with the surfaces of the model.We describe ...

Keywords: 3D laser scanner, DEM, GIS, landscape design, physical models, tangible user interface

3 The application of scene synthesis techniques to the display of multidimensional   ■
◆ image data
Philip K. Robertson, John F. O'Callaghan
October 1985 **ACM Transactions on Graphics (TOG)**, Volume 4 Issue 4
Publisher: ACM Press

Full text available: 🔁 pdf(4.42 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>, <u>review</u>

Superimposition of two image data sets allows the spatial distribution of one to be directly related to that of the other. If the two data sets have different spatial structures, the composite image is generally confusing and difficult to interpret. A method of representing image data sets in the form of naturally occurring variables in a realistic apparently three-dimensional scene is presented. One data set is represented by the topography of a surface, depicted by shaded-relief methods, ...

4 <u>The digital Michelangelo project: 3D scanning of large statues</u>   ▬

Marc Levoy, Kari Pulli, Brian Curless, Szymon Rusinkiewicz, David Koller, Lucas Pereira, Matt Ginzton, Sean Anderson, James Davis, Jeremy Ginsberg, Jonathan Shade, Duane Fulk
July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**
Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: 🔁 pdf(10.83 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

We describe a hardware and software system for digitizing the shape and color of large fragile objects under non-laboratory conditions. Our system employs laser triangulation rangefinders, laser time-of-flight rangefinders, digital still cameras, and a suite of software for acquiring, aligning, merging, and viewing scanned data. As a demonstration of this system, we digitized 10 statues by Michelangelo, including the well-known figure of David, two building interiors, and all 1,163 extant f ...

Keywords: 3D scanning, cultural heritage, graphics systems, mesh generation, range images, rangefinding, reflectance and shading models, sensor fusion

5 <u>View planning for automated three-dimensional object reconstruction and inspection</u> ▬

William R. Scott, Gerhard Roth, Jean-François Rivest
March 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 1
Publisher: ACM Press
Full text available: 🔁 pdf(517.25 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Laser scanning range sensors are widely used for high-precision, high-density three-dimensional (3D) reconstruction and inspection of the surface of physical objects. The process typically involves planning a set of views, physically altering the relative object-sensor pose, taking scans, registering the acquired geometric data in a common coordinate frame of reference, and finally integrating range images into a nonredundant model. Efficiencies could be achieved by automating or semiautomating ...

Keywords: View planning, object inspection, object reconstruction, range images

6 <u>PingPongPlus: design of an athletic-tangible interface for computer-supported</u> ▬
<u>cooperative play</u>

Hiroshi Ishii, Craig Wisneski, Julian Orbanes, Ben Chun, Joe Paradiso
May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**
Publisher: ACM Press

Full text available: 🔁 pdf(1.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

This paper introduces a novel interface for digitally-augmented cooperative play. We present the concept of the athletic-tangible interface, a new class of interaction which uses tangible objects and full-body motion in physical spaces with digital augmentation.

We detail the implementation of PingPongPlus, a reactive ping-pong table, which features a novel sound-based ball tracking technology. The game is augmented and transformed with dynamic graphics and sound, determined by the po ...

Keywords: athletic interaction, augmented reality, computer-supported cooperative play, enhanced reality, interactive surface, kinesthetic interaction, tangible interface

7   A practical approach to calculating luminance contrast on a CRT

Blair MacIntyre, William B. Cowan

October 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

Luminance contrast is the basis of text legibility, and maintaining luminance contrast is essential for any color selection algorithm. In principle, it can be calculated precisely on a sufficiently well-calibrated display surface, but calibration is very expensive. Consequently, most current systems deal with contrast using heuristics. However, the usual CRT setup puts the display surface into a state that is relatively predictable. Luminance values can be estimated based on this state, and ...

8   OOTW impact analysis

Dean S. Hartley, Richard E. Bell, Stephen L. Packard

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 2**

Publisher: ACM Press

Full text available: pdf(296.65 KB)   Additional Information: full citation, references, index terms

9   Localization with non-individualized virtual acoustic display cues

Elizabeth M. Wenzel, Frederic L. Wightman, Doris J. Kistler

March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology**

Publisher: ACM Press

Full text available: pdf(920.33 KB)   Additional Information: full citation, references, citings, index terms

10   Mouse and touchscreen selection in the upper and lower visual fields

Barry A. Po, Brian D. Fisher, Kellogg S. Booth

April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(485.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

Neuroanatomical evidence indicates the human eye's visual field can be functionally divided into two vertical hemifields, each specialized for specific functions. The upper visual field (UVF) is specialized to support perceptual tasks in the distance, while the lower visual field (LVF) is specialized to support visually-guided motor tasks, such as pointing. We present a user study comparing mouse- and touchscreen-based pointing for items presented in the UVF and LVF on an interactive display. Co ...

Keywords: Fitts Law, interactive displays, mice, pointing, touchscreens, visual fields

11 <u>Projection: Moveable interactive projected displays using projector based tracking</u>   ▬

Johnny C. Lee, Scott E. Hudson, Jay W. Summet, Paul H. Dietz

October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**

Publisher: ACM Press

Full text available: 📄 <u>pdf(3.63 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Video projectors have typically been used to display images on surfaces whose geometric relationship to the projector remains constant, such as walls or pre-calibrated surfaces. In this paper, we present a technique for projecting content onto moveable surfaces that adapts to the motion and location of the surface to simulate an active display. This is accomplished using a projector based location tracking techinque. We use light sensors embedded into the moveable surface and project low-percept ...

Keywords: augmented reality, physical interaction, projector based tracking, simulated displays

12 <u>Localization: VOR base stations for indoor 802.11 positioning</u>   ▬

Dragoş Niculescu, Badri Nath

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: 📄 <u>pdf(732.15 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Angle of arrival (AOA) has previously been used for outdoor positioning in aircraft navigation and for services like E911. For indoor positioning, the best schemes to date rely either on extensive infrastructure, or on sampling of the signal strength on a dense grid, which is subject to changes in the environment, like furniture, elevators, or people. We present an indoor positioning architecture that does not require a signal strength map, simply requiring the placement of special VOR base stat ...

Keywords: 802.11, AOA, VOR, VORBA, indoor positioning, ranging

13 <u>Computational Approaches to Image Understanding</u>   ▬

Michael Brady

March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: 📄 <u>pdf(10.04 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

14 <u>Geographic Data Processing</u>   ▬

George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: 📄 <u>pdf(4.20 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

15 <u>Planning the acoustic urban environment: a GIS-centered approach</u>   ▬

Maria Piedade G. Oliveira, Eduardo Bauzer Medeiros, Clodoveu A. Davis

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: [pdf(114.98 KB)](#)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: geographic applications, pollution control, urban noise

16 <u>Data preparation and entry for computer-aided mapping</u>
Bernard Schechter
June 1978 **Proceedings of the 15th conference on Design automation**
Publisher: IEEE Press

Full text available: [pdf(1.24 MB)](#)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The rapid growth in use of interactive graphic systems for geo-coded data bases has expanded interest about the computer-aided mapping processes by many groups involved in automation. Surveying and mapping were early users of computer technology and the current systems and practices are evolving through changes to modern classical analog mapping. The various phases of the process, from aerial photography acquisition through computer-driven hard copy output plots are reviewed as a basis for ...

17 <u>Modeling california earthquakes and earth structures</u>
Michael R. Raugh
November 1985 **Communications of the ACM**, Volume 28 Issue 11
Publisher: ACM Press
Full text available: [pdf(5.06 MB)](#)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Seismology has burgeoned into a modern science—force-fed by federal funding to advance technology for detecting underground nuclear explosions and predicting earthquakes, and by industry to improve tools for gas and oil exploration. Computers, seismic instrument systems, telemetry, and data reduction have played key roles in this growth.

18 <u>Testing strategies for simulation optimization</u>
Russel R. Barton
December 1987 **Proceedings of the 19th conference on Winter simulation**
Publisher: ACM Press
Full text available: [pdf(1.04 MB)](#)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

There is increasing interest in science and industry in the optimization of computer simulation models. Often these models are not Monte-Carlo simulations, but consist of systems of differential equations, or other mathematical models. These models can present special problems to numerical optimization methods. First, derivatives are often unavailable. Second, function evaluations can be extremely expensive (e.g. 1 hour on an IBM 3090). Third, the numerical accuracy of each function value m ...

19 <u>Surface modification tools in a virtual environment interface to a scanning probe microscope</u>
Mark Finch, Vernon L. Chi, Russell M. Taylor, Mike Falvo, Sean Washburn, Richard Superfine
April 1995 **Proceedings of the 1995 symposium on Interactive 3D graphics**
Publisher: ACM Press

Full text available: [pdf(3.87 MB)](#)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The NanoManipulator system has been expanded from a virtual-reality interface for a specific scanning tunneling microscope to include control of atomic force microscopes. The current state of the system is reviewed, and new tools extending the user's feel and

control in manipulation and fabrication in the mesoscopic regime are detailed. Manipulations that could not be performed using the techniques available from commercial SPM systems are demonstrated, and the direction of ongoing research ...

Keywords: atomic force microscopy, force, haptic, interactive graphics, scanning tunneling microscopy, scientific visualization, teleoperation, telepresence, virtual worlds

20 Supercomputers in computational ocean acoustics

D. Lee, M. H. Schultz, F. Saied

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(671.65 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we report on some computational experience in solving ocean acoustic propagation problems in three dimensions on supercomputers. The underlying Helmholtz equation is transformed into a parabolic-type equation in the Lee-Saad-Schultz model [5], which has a natural alternating direction implicit (ADI) implementation. We give estimates of the computing power required to solve problems with realistic sound velocity profiles. We then give performance results for the CRAY X-MP and ...

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1 Facial modeling and animation   ⬛
Jörg Haber, Demetri Terzopoulos
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(18.15 MB)   Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

2 Fast detection of communication patterns in distributed executions   ⬛
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Logistics/transportation applications: Simulation within the railroad environment   ⬛
Harald Krueger, Eric Vaillancourt, Ann M. Drummie, Steve J. Vucko, Joe Bekavac
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: 📄 pdf(291.14 KB)   Additional Information: full citation, abstract, citings

A panel of individuals with expertise in the railroad industry provides an overview of Simulation within the Railroad Environment. The panelists discuss their work and highlight the issues, challenges, and benefits associated with application of simulation models. Topics presented are;• Model Development, the issues and challenges.• Role of Dispatch Model in Mainline Capacity Studies.• Benefits of Simulation tools in Train Dispatching.•

Usage of Simulation in Strategic Decisi ...

4 Managing periodically updated data in relational databases: a stochastic modeling approach
Avigdor Gal, Jonathan Eckstein
November 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 6
Publisher: ACM Press
Full text available: pdf(466.73 KB)   Additional Information: full citation, abstract, references, index terms

> Recent trends in information management involve the periodic transcription of data onto secondary devices in a networked environment, and the proper scheduling of these transcriptions is critical for efficient data management. To assist in the scheduling process, we are interested in modeling *data obsolescence*, that is, the reduction of consistency over time between a relation and its replica. The modeling is based on techniques from the field of stochastic processes, and provides several ...
>
> **Keywords**: Data obsolescence, database replication management, obsolescence cost, stochastic modeling

5 Projectors: advanced graphics and vision techniques
Ramesh Raskar
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(6.53 MB)   Additional Information: full citation

6 Web technologies and applications (WTA): An empirical evaluation of client-side server selection policies for accessing replicated web services
Nabor C. Mendonça, José Airton F. Silva
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(231.14 KB)   Additional Information: full citation, abstract, references, index terms

> Replicating web services at geographically distributed servers can offer client applications with a number of benefits, including higher service availability and improved response time. However, selecting the "best" server to invoke at the client side is not a trivial task, as this decision needs to account for (and is affected by) a number of factors, such as local connection capacity, external network conditions and servers workload. This paper presents the results of an experiment in which we ...
>
> **Keywords**: empirical evaluation, replicated web services, server selection

7 GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract

> The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide

tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

8 A Metadata Catalog Service for Data Intensive Applications
Gurmeet Singh, Shishir Bharathi, Ann Chervenak, Ewa Deelman, Carl Kesselman, Mary Manohar, Sonal Patil, Laura Pearlman
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: pdf(178.25 KB)   Additional Information: full citation, abstract

Advances in computational, storage and network technologies as well as middle ware such as the Globus Toolkit allow scientists to expand the sophistication and scope of data-intensive applications. These applications produce and analyze terabytes and petabytes of data that are distributed in millions of files or objects. To manage these large data sets efficiently, metadata or descriptive information about the data needs to be managed. There are various types of metadata, and it is likely that a ...

9 Architecture and performance of server-directed transcoding
Björn Knutsson, Honghui Lu, Jeffrey Mogul, Bryan Hopkins
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4
Publisher: ACM Press

Full text available: pdf(927.92 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Proxy-based transcoding adapts Web content to be a better match for client capabilities (such as screen size and color depth) and last-hop bandwidths. Traditional transcoding breaks the end-to-end model of the Web, because the proxy does not know the semantics of the content. *Server-directed transcoding* preserves end-to-end semantics while supporting aggressive content transformations.We show how server-directed transcoding can be integrated into the HTTP protocol and into the implementat ...

Keywords: HTTP, proxy, transcode, web

10 SYNARC: A computer - aided model for architectural design
Joseph I. Greenberg, San Luis Obispo, Steven A. Siskind
June 1972 **Proceedings of the 9th workshop on Design automation**
Publisher: ACM Press
Full text available: pdf(593.80 KB)   Additional Information: full citation, abstract, index terms

The SYNARC model provides the architect-planner with a series of modular programs which allows him to evaluate and revise conceptual design solutions with a precision that has been heretofore lacking. SYNARC allows the architect to evaluate his conceptual design solution at every level of development from basic land plan to transportation systems location, from land-use and building locations to economic feasibility. It provides objective output data from physical attributes of the conceptu ...

11 High dynamic range imaging
Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.22 MB)   Additional Information: full citation, abstract

Current display devices can display only a limited range of contrast and colors, which is

one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

12 Decoupled simulation in virtual reality with the MR toolkit

Chris Shaw, Mark Green, Jiandong Liang, Yunqi Sun
July 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 3
Publisher: ACM Press
Full text available: pdf(2.65 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: interaactive 3D graphics, user interface software

13 Sensor networks: Sensor-assisted wi-fi indoor location system for adapting to environmental dynamics

Yi-Chao Chen, Ji-Rung Chiang, Hao-hua Chu, Polly Huang, Arvin Wen Tsui
October 2005 **Proceedings of the 8th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems MSWiM '05**
Publisher: ACM Press
Full text available: pdf(544.26 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Wi-Fi based indoor location systems have been shown to be both cost-effective and accurate, since they can attain meter-level positioning accuracy by using existing Wi-Fi infrastructure in the environment. However, two major technical challenges persist for current Wi-Fi based location systems, instability in positioning accuracy due to changing environmental dynamics, and the need for manual offline calibration during site survey. To address these two challenges, three environmental factors (pe ...

Keywords: adaptive system, indoor location system, performance evaluation, sensors

14 The index suggestion problem for object database applications

Eric Hughes, Marianne Winslett
December 1995 **Proceedings of the fourth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(943.03 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

15 Recent advances in software estimation techniques

Richard E. Fairley
June 1992 **Proceedings of the 14th international conference on Software engineering**
Publisher: ACM Press
Full text available: pdf(919.06 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

16 Session 4: Context awareness for group interaction support

Alois Ferscha, Clemens Holzmann, Stefan Oppl
October 2004 **Proceedings of the second international workshop on Mobility management & wireless access protocols**

Publisher: ACM Press

Full text available: pdf(363.86 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present an implemented system for supporting group interaction in mobile distributed computing environments. First, an introduction to context computing and a motivation for using contextual information to facilitate group interaction is given. We then present the architecture of our system, which consists of two parts: a subsystem for location sensing that acquires information about the location of users as well as spatial proximities between them, and one for the actual conte ...

Keywords: context awareness, group interaction, location sensing, sensor fusion

17 Performance tradeoffs for client-server query processing

Michael J. Franklin, Björn Thór Jónsson, Donald Kossmann

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings, index terms

The construction of high-performance database systems that combine the best aspects of the relational and object-oriented approaches requires the design of client-server architectures that can fully exploit client and server resources in a flexible manner. The two predominant paradigms for client-server query execution are data-shipping and query-shipping We first define these policies in terms of the restrictions they place on operator site selection during query optimization. We then investiga ...

18 Mobility Modeling of Outdoor Scenarios for MANETs

Illya Stepanov, Pedro Jose Marron, Kurt Rothermel

April 2005 **Proceedings of the 38th annual Symposium on Simulation**

Publisher: IEEE Computer Society

Full text available: pdf(187.93 KB)   Additional Information: full citation, abstract

Mobility of users significantly impacts performance of a mobile ad-hoc network. Most existing simulation tools offer only a few random mobility models, which poorly reflect user movements in outdoor scenarios. For example, they do not consider restrictions of a spatial environment. In this paper, we describe a comprehensive and extensible approach to model mobility of users in outdoor scenarios. It reflects the main factors that influence user movement: spatial environments, user travel decision ...

19 Papers: Estimating software projects

July 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(1.18 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Software Cost Estimation (SCE) continues to be a weak link in software project management. It is the responsibility of the project manager to make accurate estimations of effort and cost. This is particularly true for projects subject to competitive bidding where a bid too high compared with competitors would result in loosing the contract or a bid too low could result in a loss to the organization. From an estimate, the management often decides whether to proceed with the project. Industry has ...

Keywords: Estimation, risk, software engineering, software project

20 Applications in logistics, transportation, and distribution: Strategy simulations: tutorial
on business and market modeling to aid strategic decision making: system dynamics
in perspective and selecting appropriate analyssis approaches
Donna D. Mayo, Knud Erik Wichmann
December 2003 **Proceedings of the 35th conference on Winter simulation: driving
innovation**
Publisher: Winter Simulation Conference
Full text available: pdf(599.49 KB)   Additional Information: full citation, abstract, references

System dynamics models have been used to address strategic questions in many
hundreds of companies and government agencies around the world over the past 40
years, including a broad range of organizations in the transport sector. However, this
technique remains less well known than other approaches among potential client
organizations and within the simulation community. This paper provides a pithy tutorial
on the system dynamics method and the modeling process, uses transport sector case
exa ...

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